

## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA2004/001503

## A. CLASSIFICATION OF SUBJECT MATTER

According to the International Patent Classification (IPC)  
**G01N 33/68, G01N 33/53, and G01N 33/569**

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

**G01N 33**

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Google and MSN Recherche

Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used)

Pubmed, Derwent (from Delphion)

epitope\*, épitope\* (French), marqueur antigénique\* (French), protect\*, block\*, detect\*, denatur\*, disaggregat\*, conformat\*, assay, prion, prion disease\*, PrPsc, PrPc, succinic anhydride, diethyl pyrocarbonate, peroxynitrite

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6406864 B2 (The Regent of the Univ. of California) 18 June 2002 Refer to col. 3-4, 12-16, example 6, and claim 8	1-8, 10-39
Y, P	CA 2452946 A1 (Ortho-clinical diagnostics, inc.) 19 June 2004 Refer to claim 4	31-38
Y	CA 2408762 A1 (Aventis behring GMBH) 19 April 2003 Refer to pages 2-8 and claim 6	1-8, 10-30, 39

Further documents are listed in the continuation of Box C.

Patent family members are listed in annex.

\* Special categories of cited documents :  
 "A" document defining the general state of the art which is not considered to be of particular relevance  
 "E" earlier application or patent but published on or after the international filing date  
 "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  
 "O" document referring to an oral disclosure, use, exhibition or other means  
 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  
 "&" document member of the same patent family

Date of the actual completion of the international-type search  
**7 December 2004 (7-12-2004)**

Date of mailing of the international-type search report  
**24 December 2004 (24-12-2004)**

Name and mailing address of the ISA/  
*Commissioner of Patents*  
*Canadian Patent Office - PCT*  
*Ottawa/Gatineau K1A 0C9*  
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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Bolton et al. (Jul 1991). Molecular Location of a species-specific epitope on the hamster scrapie agent protein. <i>J of Virology</i> . 65(7): 3667-3675. Refer to page 3668, 1 <sup>st</sup> two paragraphs; and page 3671, subsection: Chemical modification of the epitope	1-30, 39
A	Safar et al. (November 2002). Measuring prions causing bovine spongiform encephalopathy or chronic wasting disease by immunoassays and transgenic mice. <i>Nat Biotechnol</i> . 20(11): 1147-1150. Refer to the whole document	1-8, 10-30, 39
A	Paramithiotis et al. (Jul 2003). A prion protein epitope selective for the pathologically misfolded conformation. <i>Nat Med</i> . 9(7): 893-899. Refer to page 893, 2 <sup>nd</sup> col.; page 894, 1 <sup>st</sup> col.; page 895; and methods.	1-8, 15-28
A	Goldberg M. (April 2003). Le prion: un agent pathogène encore mystérieux. Extrait de <i>La Lettre de l'Institut Pasteur</i> . 41: 1-10. Refer to page 5, subsection: "Améliorer la sensibilité des tests de détections"	1-39
A	Guilbert C. (April 2001). La dynamique du prion. <i>Biofutur, Hors Série avril 2001</i> : 30-32. Refer to the whole document for background on prion	1-39
A, E	Soto C. (October 2004). Diagnosing prion diseases: needs, challenges and hopes. <i>Nature Rev Microbiol</i> . 2(10): 809-819. Refer to the whole document for background on prion detection methods	1-39

**INTERNATIONAL SEARCH REPORT**  
Information on patent family members

International application No.  
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Document cited	Publication date	Family member(s)	Publication date
US6406864	18-06-2002	AU761710 B2 AU765939 B2 AU2585499 A AU6413799 A BR9914373 A CA2318473 A1 CA2344853 A1 DE1071716 T1 DE1119773 T1 EP1071716 A1 EP1119773 A1 JP2002504495 T JP2002527082 T NZ510703 A US5977324 A US6214565 B1 US6406864 B2 US6677125 B2 US2004137529 A1 WO0022438 A1 WO9942487 A1	05-06-2003 02-10-2003 06-09-1999 01-05-2000 07-08-2001 26-08-1999 20-04-2000 25-10-2001 25-10-2001 31-01-2001 01-08-2001 12-02-2002 27-08-2002 25-10-2002 02-11-1999 10-04-2001 18-06-2002 13-01-2004 15-07-2004 20-04-2000 26-08-1999
CA2452946	19-06-2004	CA2452946 A1 CA2457651 A1 EP1435521 A1 EP1445615 A1 JP2004198432 A US2004180367 A1	19-06-2004 10-08-2004 07-07-2004 11-08-2004 15-07-2004 16-09-2004
CA2408762	19-04-2003	CA2408762 A1 DE10152677 A1 EP1304336 A2 IL152332D D0 JP2003206300 A US2003092094 A1	19-04-2003 08-05-2003 23-04-2003 29-05-2003 22-07-2003 15-05-2003